

# PATENT COOPERATION TREATY

PLM

From the INTERNATIONAL SEARCHING AUTHORITY

To:	LOUIS MYERS FISH & RICHARDSON P.C. 225 FRANKLIN STREET BOSTON MA 02110-2804
<b>RECEIVED</b>	
Docketed By Billing Secretary	14 NOV 1 7 2000
Due Date:	14 NOV 1 7 2000
Deadline:	14 NOV 1 7 2000
Initials:	F&R (00) 21/14 NOV 1 7 2000
FISH & RICHARDSON BOSTON OFFICE	

**PCT**

## NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

Date of Mailing (day/month/year)	14 NOV 2000
Applicant's or agent's file reference <b>10275-13701W WO 1</b>	<b>FOR FURTHER ACTION See paragraphs 1 and 4 below</b>
International application No. <b>PCT/US00/25560</b>	International filing date (day/month/year) <b>18 SEPTEMBER 2000</b>
Applicant <b>GENZYME TRANSGENICS CORPORATION</b>	

1.  The applicant is hereby notified that the international search report has been established and is transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

**When?** The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.

**Where?** Directly to the International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland  
Facsimile No.: (41-22) 740.14.35

**For more detailed instructions,** see the notes on the accompanying sheet.

Docketed By Practice byd...  
**Respo Report 14/101**  
**art(00) 21/14/101**

2.  The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

Docketed By Practice byd...  
**CAS**  
**Rec'd:**  
**RECORD:**

3.  With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box 52200, Washington, D.C. 20590-5220
Form PCT/US00/25560 Washington, D.C. 20590-5220

Authorized officer

JANET M. KERR

*Janet M. Kerr*  
(See notes on accompanying sheet)

# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: LOUIS MYERS  
FISH & RICHARDSON P.C.  
225 FRANKLIN STREET  
BOSTON MA 02110-2804

## PCT

### NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

<p>Date of Mailing (day/month/year)</p>	<b>14 NOV 2000</b>
Applicant's or agent's file reference  10275-13701W	<b>FOR FURTHER ACTION</b> See paragraphs 1 and 4 below
International application No.  PCT/US00/25560	International filing date (day/month/year) 18 SEPTEMBER 2000
Applicant <b>GENZYME TRANSGENICS CORPORATION</b>	

1.  The applicant is hereby notified that the international search report has been established and is transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

**When?** The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.

**Where?** Directly to the International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland  
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2.  The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3.  With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the ISA/US  Commissioner of Patents and Trademarks Form PCT/US00/101992B1 Washington, D.C. 20231	Authorized officer  JANET M. KERR
--	---

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/25560

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) :C07H 21/04; C07K 1/00, 14/00; C12N 5/00, 15/12, 15/13; C12P 21/00

US CL :Please See Extra Sheet.

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/69.1, 69.7, 325, 455; 530/350, 387.3; 536/23.1, 23.4; 800/4, 6, 7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
NONE

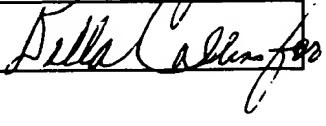
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Extra Sheet.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P ---	NEWTON, D.L. et al. Antitransferrin Receptor Antibody-RNase Fusion Protein Expressed in the Mammary Gland of Transgenic Mice. J. Immunol. Methods 1999. Vol. 231. pages 159-167, see entire document.	1,4-8, 10-17 ----
Y,P ---		2, 3, 9
X ----	US 5,880,327 A (LUBON et al.) 09 March 1999, col. 3 to col. 12 and the claims.	1, 10, 14-16 ----
Y ----		2-9, 13
X ----	WO 95/27782 A1 (PPL THERAPEUTICS (SCOTLAND) LTD) 19 October 1995, pages 1-23, see especially pages 17-19.	1, 10, 14-16 ----
Y		2-9, 13

<input checked="" type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input type="checkbox"/>	See patent family annex.
"A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier document published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason ('is specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search  20 OCTOBER 2000	Date of mailing of the international search report  14 NOV 2000
Name and mailing address of the ISA/USPTO/Office of the Commissioner for Patents (indicate country if not the USA) (July 1998)* Box PCT	Authorized officer Telephone No. (703) 308-0196 

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/25560

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P ----	US 5,959,171 A (HYTTINEN et al.) 28 September 1999, col. 6 to col. 10.	1, 10-12, 14-17 ----
Y,P		2-9, 13
Y	US 5,840,840 (RYBAK et al.) 24 November 1998, col. 7 to col. 18.	6-8
Y	US 5,206,161 (DRAYNA et al.) 27 April 1993, col. 34 to col. 38.	9
Y	US 5,948,668 A (HARTMAN et al.) 07 September 1999, col. 2 to col. 10.	9
Y	WO 98/18809 A1 (CELL GENESYS, INC.) 07 May 1998, pages 1-62, see especially pages 8, 12-16, and 21.	1, 3, 5

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US00/25560

**A. CLASSIFICATION OF SUBJECT MATTER:**

US CL :

435/69.1, 69.7, 325, 455; 530/350, 387.3; 536/23.1, 23.4; 800/4, 6, 7

**B. FIELDS SEARCHED**

Electronic data bases consulted (Name of data base and where practicable terms used):

WEST, MEDLINE, EMBASE, BIOSIS, INPADOC, CAPLUS

search terms: transgenic, fusion protein, chimeric, ig, igg, tag-72, carcinoembryonic antigen, rnase, rnase a, carboxypeptidase, angiogenin, transferrin receptor, milk

## NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is generally no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter II.

When? Within 2 months from the date of transmission of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the application time limit but before the completion of the technical preparations for international publication (Rule 46.2).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or cancellations, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether:

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.